CLAIMS

- 1 1. A method for marking petroleum products, the method comprising the steps of:
 2 adding a marker which has a high molar absorptivity in the wavelength range of
 3 600 1000 nm to a petroleum product;
 4 mixing the marker in the petroleum product; and
 5 detecting the marker in the petroleum product.
- The method of claim 1 wherein the marker contains a compound selected from
 the group consisting of metal containing and metal free phthalocyanine dyes, metal containing
 and metal free naphthalocyanine dyes, squarilium dyes, croconic acid dyes, indole and
 substituted indole cyanine and carbocyanine dyes, thiazole type cyanine and carbocyanine dyes,
 oxazole type cyanine and carbocyanine dyes, metal dithiolene complexes, and indoaniline metal
 complexes.
- 1 3. The method of claim 2 wherein the marker is detected using an IR spectrometer.
- 4. The method of claim 2 wherein the marker is used to determine if the petroleum product has been adulterated.
- 1 5. The method of claim 2 wherein the petroleum product is in diesel fuel.